# Cytometer Performance Report

| | | | |
|---|---|---|---|
| Cytometer: | FACSCantoII | User: | Administrator |
| Cytometer Name: | FACSCantoII | Institution: | N/A |
| Serial Number: | V33896201821 | Software: | BD FACSDiva 8.0.2 |
| Input Device: | Carousel | Date: | 08/19/2021 08:51 AM |
| Tube Loaded Manually: | Yes | Cytometer Baseline: | 06/17/2021 09:50 AM |
| Cytometer Configuration: | Euroflow 3-laser, 8-color (4-2-2) | P/F: | Pass |

## Setup Beads

| | | | |
|---|---|---|---|
| Bead Product: | CST Setup Beads | Part #: | 910859 |
| Lot ID: | 12757 | Expiration Date: | 06/30/2022 |
| Bead Lot Information: | Available | | |

## Detector Settings

| Laser | Detector | Parameter | Target Value | Actual Target Value | % Difference Target Value | Bright Bead % Robust CV | Mid Bead Median Channel | Mid Bead % Robust CV |
|---|---|---|---|---|---|---|---|---|
| Blue | FSC | FSC | 125000 | 124042 | -1 | 1.44 | 123918 | 1.41 |
| Blue | F | SSC | 125000 | 124186 | -1 | 2.76 | 124414 | 2.58 |
| Blue | E | FITC | 13131 | 12715 | -4 | 2.49 | 292 | 15.19 |
| Blue | D | PE | 24112 | 23809 | -2 | 2.02 | 544 | 10.48 |
| Blue | B | PerCP-Cy5-5 | 31295 | 30311 | -4 | 3.33 | 1003 | 14.32 |
| Blue | A | PE-Cy7 | 19939 | 19562 | -2 | 5.40 | 521 | 28.36 |
| Red | C | APC | 42122 | 41616 | -2 | 2.79 | 1747 | 11.05 |
| Red | A | APC-Cy7 | 22340 | 21744 | -3 | 3.11 | 814 | 11.18 |
| Violet | B | V450 | 7410 | 7012 | -6 | 3.30 | 429 | 12.16 |
| Violet | A | V500 | 28118 | 26622 | -6 | 2.91 | 666 | 9.54 |

## Detector Settings (Continued)

| Laser | Detector | Parameter | Dim Bead Median Channel | Dim Bead % Robust CV | PMTV | Δ PMTV | Qr | Br | P/F |
|---|---|---|---|---|---|---|---|---|---|
| Blue | FSC | FSC | 22908 | 1.44 | 562 | -7 | N/A | N/A | Pass |
| Blue | F | SSC | 57951 | 1.18 | 515 | 3 | N/A | N/A | Pass |
| Blue | E | FITC | 54 | 54.62 | 482 | -5 | 0.0469 | 159 | Pass |
| Blue | D | PE | 115 | 34.78 | 485 | -3 | 0.4241 | 254 | Pass |
| Blue | B | PerCP-Cy5-5 | 186 | 33.95 | 579 | -7 | 0.0203 | 6 | Pass |
| Blue | A | PE-Cy7 | 102 | 67.95 | 622 | -6 | 0.0236 | 5 | Pass |
| Red | C | APC | 404 | 23.43 | 576 | 0 | 0.0300 | 212 | Pass |
| Red | A | APC-Cy7 | 183 | 26.87 | 550 | -1 | 0.0070 | 1302 | Pass |
| Violet | B | V450 | 60 | 61.19 | 463 | 10 | 0.0619 | 2075 | Pass |
| Violet | A | V500 | 95 | 32.62 | 474 | 9 | 0.0268 | 614 | Pass |

## Specifications

| | |
|---|---|
| PMTV Delta from baseline: | 50 (BD) |
| Violet Laser Primary Channel Bright Bead %Robust CV: | 6.00 (Recommended) |
| Blue Laser Primary Channel Bright Bead %Robust CV: | 6.00 (Recommended) |
| Red Laser Primary Channel Bright Bead %Robust CV: | 6.00 (Recommended) |

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| Serial Number: | V33896201821 | Software: | BD FACSDiva 8.0.2 |
| Input Device: | Carousel | Date: | 08/19/2021 08:51 AM |
| Tube Loaded Manually: | Yes | Cytometer Baseline: | 06/17/2021 09:50 AM |
| Cytometer Configuration: | Euroflow 3-laser, 8-color (4-2-2) | P/F: | Pass |

## Laser Settings

| Laser | Power (mW) | Power Spec. (mW) | Current (mA) | Current Guidelines (mA) | Delay (Trigger on FSC) | Delay (Trigger on Fluorescence) | Area Scaling Factor |
|---|---|---|---|---|---|---|---|
| Violet | 59.55 | 47.97 - 71.95 | N/A | N/A | -31.44 | -31.23 | 0.95 |
| Blue | 20.36 | 16.28 - 24.42 | 1.29 | 1.02 - 1.52 | 0.00 | 0.00 | 1.43 |
| Red | 14.98 | 13.60 - 20.40 | N/A | N/A | 29.73 | 29.97 | 1.23 |

Window Extension: 7.00
FSC Area Scaling Factor: 0.75

## Threshold

Threshold (FSC): 16173

## Fluidics

FACSFlow Pressure: 3.90 Sample Pressure: 3.70
Spec.: 3.80 - 4.00

Comments